ability, attitudes toward 241
acholeplasma 335
acquisition, problems of 306
acquisition strategies, age differences 411
activity, open field 87
adipocytes 455, 457, 473, 475
adrenocorticotrophin 472
afterimages, complementary 111
age decrements 378
aging, *in vitro* 334
  physiological 57
Alzheimer's disease 327
ambiguous figures 52
amnesic syndrome 262
amoebae 324
angiography 7, 9
anxiety 300, 315
arousal 109, 300
arousal, autonomic 113
assay,
  microbiological 337
  immunofluoresence 337
  uridene phosphorase 338
associative symmetry, aging 350
assymmetry 412, 418, 419
attention (1) 57, 241
attention, distribution of 79
attitudes 303
auditory sensory capability 25
automobile, accident curve 384
automobile, accident involvement 384
auto regulatory abilities 6

behavior, problem-solving 209
benzoic acid 139
binary decisions 291, 294, 297, 298
biological clocks 328
blood pressure 421, 424, 425
blood pressure, contextual variables 521
  diastolic 422, 427, 521-524, 526-529, 531-532
  elderly 521
  protein-free diet effects 535, 538, 540-541
  protein relationship 536
  range 428
  systolic 422, 427, 521-524, 526-529, 531-532
bovine adrenal phenylethandlamine-n-methyl transferase 101
bovine serum 335
brain 97, 99, 237, 239
brightness contrast, simultaneous 56

Caenorhabitis briggsae 133
cardiovascular 3
Cattell 16 PF scales 300
caudal artery 537
cautiousness 204
cell cultures 322, 334, 337
cell lines 321-328
cells (4) 333, 334, 336, 466
cellular aging 321, 323
centrophenoxine 133
cerebral cortex, frontal 99
cerebrovascular disorders 3
chromosome abnormalities 336
chromosome, breakage syndrome 327
clinical memory, testing with the aged 264
cognitive functioning, impaired stereotype 312
cognitive maps 157
cognitive skill, training 305
cognitive styles 47
collagenase 458
conductance, skin 109
confidence rating scale 203
Cornell medical index 421, 427, 428, 430
critical click fusion 110
critical flicker fusion (CFF) 109
cross-linkages, molecular 139
cross-sectional design 383
cultured cells, mammalian 324
cultured cell, production facility 333
custodial care 284
cytopathology 336
cytophotometric measurements 465

decision making 300, 315
decision processes 245
depression 239
development, transitional phase of 245
diameter, pupil (eye) 112
diet, protein free 535-541
diet, standard lab 536, 538
dimethylaminoethanol 133-136
diploid cells, human 334
discrimination learning 208
discrimination performance 112
disease, coronary 15
disorientation 159
dizziness 7
DNA 324, 327, 338, 463, 465, 471
dopamine 153
drugs,
  antihypertensive 6, 7
  centrophenoxine 133
  dimethylaminoethanol 133-134
  phenoxine 133
dynamic processes 237

ability, attitudes toward 241
acholeplasma 335
acquisition, problems of 306
acquisition strategies, age differences 411
activity, open field 87
adipocytes 455, 457, 473, 475
adrenocorticotrophin 472
afterimages, complementary 111
age decrements 378
aging, *in vitro* 334
  physiological 57
Alzheimer's disease 327
ambiguous figures 52
amnesic syndrome 262
amoebae 324
angiography 7, 9
anxiety 300, 315
arousal 109, 300
arousal, autonomic 113
assay,
  microbiological 337
  immunofluoresence 337
  uridene phosphorase 338
associative symmetry, aging 350
assymmetry 412, 418, 419
attention (1) 57, 241
attention, distribution of 79
attitudes 303
auditory sensory capability 25
automobile, accident curve 384
automobile, accident involvement 384
auto regulatory abilities 6

behavior, problem-solving 209
benzoic acid 139
binary decisions 291, 294, 297, 298
biological clocks 328
blood pressure 421, 424, 425
blood pressure, contextual variables 521
  diastolic 422, 427, 521-524, 526-529, 531-532
  elderly 521
  protein-free diet effects 535, 538, 540-541
  protein relationship 536
  range 428
  systolic 422, 427, 521-524, 526-529, 531-532
bovine adrenal phenylethandlamine-n-methyl transferase 101
bovine serum 335
brain 97, 99, 237, 239
brightness contrast, simultaneous 56

Caenorhabitis briggsae 133
cardiovascular 3
Cattell 16 PF scales 300
caudal artery 537
cautiousness 204
cell cultures 322, 334, 337
cell lines 321-328
cells (4) 333, 334, 336, 466
cellular aging 321, 323
centrophenoxine 133
cerebral cortex, frontal 99
cerebrovascular disorders 3
chromosome abnormalities 336
chromosome, breakage syndrome 327
clinical memory, testing with the aged 264
cognitive functioning, impaired stereotype 312
cognitive maps 157
cognitive skill, training 305
cognitive styles 47
collagenase 458
conductance, skin 109
confidence rating scale 203
Cornell medical index 421, 427, 428, 430
critical click fusion 110
critical flicker fusion (CFF) 109
cross-linkages, molecular 139
cross-sectional design 383
cultured cells, mammalian 324
cultured cell, production facility 333
custodial care 284
cytopathology 336
cytophotometric measurements 465

decision making 300, 315
decision processes 245
depression 239
development, transitional phase of 245
diameter, pupil (eye) 112
diet, protein free 535-541
diet, standard lab 536, 538
dimethylaminoethanol 133-136
diploid cells, human 334
discrimination learning 208
discrimination performance 112
disease, coronary 15
disorientation 159
dizziness 7
DNA 324, 327, 338, 463, 465, 471
dopamine 153
drugs,
  antihypertensive 6, 7
  centrophenoxine 133
  dimethylaminoethanol 133-134
  phenoxine 133
dynamic processes 237

electromyography 391
embedded figures test 37, 38, 40, 46
endocrines 145
environment, identification of, 157, 166
  knowledge of, 157, 165
  preference for, 157, 170
  recognition of, 157, 166
  adjustment to, 98
enzyme 98
enzyme analysis 336
enzyme assays 100
epinephrine 456, 460
Epstein-Barr virus 327
experience inventory 297
extradimensional shift task 209
extravert 51
eysenck personality inventory 37, 41

face hand test 496, 497, 498, 500
field dependence 37
figural relation task 312
figures, incomplete 67
flexible cognitive style 48
flinch 25
footshock 30
fragmented analytical approach 47
free fatty acid 111

general intelligence 37
genetics, somatic cell 324
genetic defects, prenatal diagnosis 336
geometric figure 40
geriatric patients, hospitalized 479
global cognitive style 47
glucagon 472
glycerol 461, 471, 473, 475
gonads 145
groups, self-help 313

heart 97, 99
heart disease, coronary 3
heart rate 537, 539, 540
housing 94, 95
human cells, cultured 321
hydrolysis 133
hypertension 421-424, 427-428, 430, 522
hypothalamic,
  biogenic amines 153
  catocholamines 153-154
hypothalamic extracts 152
hypothalamus 145
hypoxanthine phosphoribosyl transferase 336

illusions 55
imagery, interactive 310
impulsivity 300
IMR-90 325-326
IMR-91 325-326
inadequacy, feelings of 241
individual differences cognitive style 305
individual differences, personality 305
information
  encoding of 236, 237
  encoding age related differences in 243
  processing ability 237, 238
inhibition, proactive 344
instructional conditions 412, 414, 418, 419
intellectual functioning 38, 493
intra-dimensional task 207
intra-dimensional shift task 209
introversion 51
introvert 51
intrusion, errors 202
I.Q. 480, 481, 490

karyotype 336
karyotype, interpretation 336
kidney 97, 99
knee extension strength, isometric 389, 392-393, 395, 397-399, 403-404, 407
Korsakoff patients 255, 262
Korsakoff's syndrome 255, 256, 262, 263

Learning 111, 175, 176, 179, 183, 256, 259, 310, 345, 418, 419
learning to learn 209
L-epinephrine 457, 461, 468, 471, 472, 474
LH-releasing activity 145, 152
lipid peroxidation 138
lipofus, accumulation 135-138
lipolysis 456, 459, 474, 475
lipolytic response 457-452
liver 97, 99
locomotion 94
longitudinal research 237
Lowe's syndrome 327
lymphocyte, transformation 336

M. Arginini 335
M.Hominis 335
M. Hyorhinis 335, 338
M. Orale 335
manipulations, environmental 87
MAO enzyme reaction, michaelis constant, maximum velocity 101
masking 56, 110, 112

mediation 180, 207, 218, 219, 224, 245
membrane fluidization 139
memory
  abnormal EEG's 281
  adaptational factors, 273
  affective states 240
  age-related declines 241
  age-span relationship 494
  amytal test 281
  clinical assessment of 247, 257
  collection 261
  complaints 235, 236, 237, 239, 275
  comprehensive test of 259
  dates 240
  deficits 191
  diagnostic battery 235, 236, 249
  discovery technique 313
  dysfunction 236
  effects of depression 274
  effects of non-cognitive factors 274
  effects of practice on 245
  episodic 125, 244
  problems, etiology of 235, 242
  evaluation of 235
  faces 240
  familiar letters for 294
  functions 235, 237, 275
  Guild Memory Test 496, 497, 500
  immediate 493
  individual difference variables 291
  intervention programs 233, 235, 249
  long-term 366, 493
  memorization 305
  models of 237
  names 240
  nursing home population 493
  orientation 256
  peak 370, 375
  performance 239
  portable assessment procedures 249
  primary 260, 261, 293, 306
  problems in clinical assessment of 235, 255
  problems training 305
  questionnaire 374
  recall 370
  recent 256, 365
  recognition 291, 299, 301
  remote 240, 256, 365-367, 374-375
  retrieval 261
  secondary 260, 261, 293, 306
  self-perception of problems 241
  self-report declines of 238
  semantic 125
  sensory 260
  sex-biased 366, 375
  sex differences 371
  short term 351, 493
  stereotype changes 274
  storage 261
  tertiary 293, 295
  unfamiliar letters for 294
Memory Task,
  continuous recognition 203
  mental performance 300
  mental status exam 256, 257
  method of loci 309
  mice 6, 89, 98, 321
  microbial contamination 334
  mitochondria 100
  mnemonic, techniques 308
  monoamine oxidase activity 97, 102, 103
  mood states 303
  motivation 34, 236, 305
  movement time 390
  Mueller-Lyer illusions 55
  multi-trial task 353
  muscle 389-407
  mutagens, chemical 328
  mutations, chromosomal 324

National Institute on Aging,
  basic aging program 333
  cell line repository 321, 323
  mycoplasma testing service 333, 337, 339
nematodes 133
nervous system 56, 111, 389, 390
neural activity 58, 111
neurons 56, 57, 111
norepinephrine 97, 98,103,153, 457
note taking skills 310
nursing home 157, 173, 284

omission errors 111
organic brain dysfunction 281
organic brain syndromes 246
orienting response 25
osmotic fragility 136
overtraining 207

pacing 203
paired-associates 310, 344, 351
pancreas 97, 99
patient-oriented-approach 158
perceptual
  encoding 68
  functioning 55
  inference 69
  motor reaction time 377-379

style 377-384
personality 37, 236, 291, 295, 300
p-chlorophenoxyacetic acid (PCA) 133-134, 135
phenoxine 133
physical complaints 421, 422, 427
Pick's Disease 247
pigment, age 133
pituitaries 145
plasma
  blood volume 536
  membrane function 336
  renin activity 6-7, 535-536
positive transfer effects 312
preretinal structures 55
problem-solving 207, 215, 216, 505-516
problem-solving ability 37, 38, 57
procaine 139
prostaglandin E 154
pseudodementia 278, 280
psychological complaints 421, 422, 426, 427

qualitative analysis 47

rabbits, New Zealand whites 99
radioisotopes 101
rat pituitaries, incubated 152
rats
  distribution 321
  Fischer # 344 456
  gonadectomized 145
  heart of 98
  Long-Evans 147
  Sprague-Dawley 23, 535, 540, 541
  Wistar 535, 540, 541
reaction time
  choice 291, 294, 297, 298, 434, 437, 439, 440, 441
  complex 379, 381, 382, 383
  fractional techniques 391
  motor 389, 391, 401, 403, 407, 408
  movement 400
  premotor 389, 391, 400
  resisted 390, 402, 404
  resisted techniques 391
  simple 434, 437
  simple choice 379, 381, 382, 383
  simple resisted 400
  tasks 391
  unresisted 402
recall 195
receptor 55
receptor sensitivity 68
recognition 195
recognition
  errors 198, 201
  photographic 158
  spatial 166
rehearsal
  covert 345
  mediational 345
  overt 351, 352
  spontaneous 343, 345, 351
rehearsal deficit hypothesis 343, 349, 351, 354
reserpine 6
resolution, temporal 113
restraint, chronic 87
reticular formation 112
reversal task 207
rod and frame test 52

selective attention 379-385
self control scales 297, 299
self-images, negative 313
self-statements, negative 310
senile dementia 256
sensitivity, contour 56, 57
sensory deprivation 280
sensory efficiency 55
serial task 434
serotonin (5-HT) 98, 100
serum LH concentration 149
serum protien 535
serum testosterone 145
Shipley-Hartford Vocabulary Test 508, 510
shock detection, electric 23
skinfold fat measure 396, 397
sodium metabisulphite 139
spatial environment, knowledge of 157
stimulation, electrical 112
stimulus persistence model 55, 56, 109, 110
stimulus traces 110
storage capacities 237
strategies, organizational 185, 311
stress 146, 154, 281
stress, cold 88
stroke 3, 4, 15
surgery, vascular 7

temperament 291, 295
temperament survey 298, 381
testis 97
Thematic Apperception Test 506
theory, information processing 260
therapeutic regimens 328
threshold 23, 24, 56, 109
training, transfer of 208

training techniques, individual differences 314
trait anxiety 291
tranquilizer 11, 16
transfer, negative instrumental 209
trichloroacetic acid 460
triglyceride 456
trigram learning material 177
tryptamine 100
tumors, *in vivo* 336

values 223
vasodilator 6, 11, 16
Veterans Administration Normative Aging Study 436
virus 336
visual acuity 37
vocabulary 125, 130-131
voluntary contractions 394

WAIS, Satz-Mogel abbreviated 479, 481, 482, 486, 490
warm up 209
Wechsler Memory Scale 501
Wernerian Theory 47
white noise 109
word fluency 125, 126, 130, 131
word recognition, multiple choice 196